NATIONAL BUREAU OF STANDARDS REPORT

NBS PROJECT
0201-30-2320

July 1, 1954

NBS REPORT
3357

QUALIFICATION TESTS
OF
LAMPS SUPPLIED TO THE GOVERNMENT
BY
EIGHT CONTRACTORS
DURING FIRST TEN MONTHS
OF
CONTRACT PERIOD SEPTEMBER 1, 1953 TO AUGUST 31, 1954

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Approved for public release by the Director of the National Institute of Standards and Technology (NIST) on October 9, 2015

1. Purpose of Tests

Paragraphs I(g) and I(h) of the Invitation for Bids for Electric Lamps (class 17, part VI) issued May 13, 1953 provided that any bid to supply lamps to the Government during the contract period September 1, 1953 to August 31, 1954, would be considered only if the bidder was qualified under the requirements of applicable Federal Specifications and also specified means whereby successful bidders could qualify for the succeeding contract period September 1, 1954 to August 31, 1955. This report gives a summary of the tests made in accordance with these provisions of the Invitation for Bids.

2. Procedure

A Government lamp inspector made periodic visits to the factories or warehouses of contractors supplying lamps to the Government and inspected these lamps to determine compliance with applicable Federal Specifications. Samples from tentatively accepted lots of lamps were selected and forwarded to the National Bureau of Standards for life test. The life tests of the various categories of lamps were made in accordance with the requirements of applicable Federal Specifications as follows:

Lamps	Groups	Federal Specification
Incandescent large	a-as-rs	W-L-101e
Incandescent miniature	m	W-L-111b
Fluorescent	fl	W-L-116
Photographic flash	pf	W-L-122

3. Number of Lamps Life-Tested

Lamps as follows, manufactured by current contractors, were life-tested:

Test No.	Lamp Manufacturer	Groups	Number Life-Tested
1	Amplex Corp.	rs	80
2	Arc-Ray Electric Corp.	fl	90
3	Champion Lamp Works	a-rs	679
4	Champion Lamp Works	fl	90
5	General Electric Co.	a-as-rs	602
6	" " "	m	61
7	" " "	fl	90
8	" " "	pf	140
9	Radiant Lamp Corp.	as	66

Test No.	Lamp Manufacturer	Groups	Number Life-Tested
10	Sylvania Electric Prod.	a-rs	605
11	" " "	fl	90
12	" " "	pf	140
13	Tung-Sol Lamp Works	m	403
14	Westinghouse Elec.Corp.	a-as-rs	599
15	" " "	m	50
16	" " "	fl	90
17	" " "	pf	140

4. Results

The lamps included in the qualification tests were the product of eight manufacturers. These were grouped into 17 separate qualification tests as tabulated in Section 3 above. The lamps in each of the 17 tests complied with the qualification requirements of the applicable Federal Specifications as listed in Section 2 above, in effect on the date of the tests. Detailed test results are on file at the National Bureau of Standards.

5. Remarks

Each of the eight contractors currently supplying lamps to the Government has qualified to have his bid to supply lamps of the types listed in Section 3 above considered for the contract period September 1, 1954 to August 31, 1955.